



MATH

5

FOR FAMILIES

YOU ARE your child's first teacher. Learn how to support the goals of Oklahoma's academic standards and why they are important for your child. Please be in regular communication with your child's teachers and ask how you can support math learning at home. When schools and families work together as partners, it helps your child achieve academic excellence!

FIFTH GRADE

What to expect:

In fifth grade, students will practice more complex computation with fractions, decimals and larger numbers using the four basic operations: addition, subtraction, multiplication and division. Fifth-grade math also emphasizes real-world situations to help students strengthen their skills and solve problems that occur in their daily lives.

By the end of the school year, your child will:

- Divide multi-digit numbers with remainders. For example, 432 divided by 11 is 39 with a remainder of 3.
- Add and subtract decimals and fractions with like and unlike denominators. For example, $\frac{1}{8} + \frac{1}{4}$ can be calculated as $\frac{1}{8} + \frac{2}{8} = \frac{3}{8}$.
- Describe and find the volume of three-dimensional shapes. For example, a cube with dimensions of 4 inches wide by 3 inches deep and 4 inches tall would have a volume of 48 inches because $4 \times 3 \times 4 = 48$.
- Construct and analyze double-bar and line graphs and use ordered pairs on coordinate grids.
- Find the mean, median, mode and range from a set of numbers.

What to do at home:

- Cook with children using recipes that include fractions.
- Determine the number of ice cubes it takes to fill a container to help your child understand the concept of volume.
- Sort objects into three to five categories and ask your child to create a graph based on the categories and explain it to you.
- Provide your child with five numbers – for example, 26, 30, 32, 32, 35. Ask your child to find the *mean*, or average (31); *median*, or middle number (32); *mode*, or number that occurs the most (32); and *range*, the difference between the highest and lowest number ($35 - 26 = 9$).



OKLAHOMA STATE DEPARTMENT OF
EDUCATION
— CHAMPION EXCELLENCE —



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Fostering Curiosity

Children are naturally curious and want to learn about things that interest them. Since curiosity contributes to success in the classroom, it is important to encourage it at home. Play is a wonderful way to spark curiosity, so be sure to allow plenty of playtime. Encourage your child to ask questions, be creative, discover answers and explore the world.

Cultivate your child's curiosity with guiding questions like these:

- What would happen if houses were shaped like pyramids?
- Who do you think knows the largest number in the world, and how did they figure it out?
- If we didn't have coins or bills to use for money, what would we do?

Your child will have plenty of questions. It's okay if you don't have the answer every time. The best response is always, "Let's find out together."

Fostering Communication

Families can play a role in helping their children learn to be good communicators by encouraging them to add new words to their vocabulary, express themselves and be good listeners. As children's communication skills grow, they are able to learn new ideas, get along with others and develop positive relationships and a strong self-image.

Cultivate your child's communication skills with questions like these:

- What do you think we should have for breakfast tomorrow?
- What goals can you set to make tomorrow better than today?
- What was your favorite part of the week and why?
- How did you help someone in need today?

Fostering Comprehension

Reading is a building block for success in all school subjects and a critical skill that develops with time and practice. Encourage your child to read for pleasure, and be a good role model by reading things you enjoy. Use the following questions to help fifth-graders understand what they are reading.

BEFORE READING

- Is this the type of book you usually choose? Why or why not?
- By looking at the cover, what do you think the author's reason for writing the book might be?
- What do you think the book will be about?

DURING READING

- Will you read a short section to me with feeling in your voice?
- What do you do when you don't understand what you just read?
- What resources can you use to understand words you aren't familiar with?

AFTER READING

- Give a summary of the book in 10 words.
- What problem did the main character face? What was the solution to that problem?
- What message is the author sharing with the reader? Why do you think that?